DOCKET NO.: 27112-14589 Application No.: 10/577,742 Office Action Dated: December 16, 2009

## LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

- 1-52. (Canceled)
- 53. (Previously Presented) A method for eliciting an immune response against an A/E pathogen, or component thereof, in an animal comprising administering to the animal an effective amount of a composition comprising:
- a polypeptide which comprises an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24 or a fragment or variant thereof,
- a nucleic acid molecule which comprises a nucleotide sequence substantially identical to the sequence of SEQ ID NOs: 1-3 or a fragment or variant thereof,
- a nucleic acid molecule encoding a polypeptide which comprises an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24 or a fragment or variant thereof, or
- iv) a cell culture supernatant which comprises a polypeptide comprising an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24, or a fragment or variant thereof, thereby eliciting an immune response in the animal.
- 54. (Previously Presented) A method for reducing colonization of an A/E pathogen in an animal, the method comprising administering to the animal an effective amount of a composition comprising:
- a polypeptide which comprises an amino acid sequence substantially identical to the sequence of SEQ ID NOs; 22-24 or a fragment or variant thereof,
- ii) a nucleic acid molecule which comprises a nucleotide sequence substantially identical to the sequence of SEQ ID NOs: 1-3 or a fragment or variant thereof,

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 a nucleic acid molecule encoding a polypeptide which comprises an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24 or a fragment or variant thereof, or

- iv) a cell culture supernatant which comprises a polypeptide comprising an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24, or a fragment or variant thereof, thereby reducing colonization of the A/E pathogen in the animal.
- 55. (Previously Presented) A method for reducing shedding of an A/E pathogen in an animal comprising administering to the animal an effective amount of a composition comprising:
- a polypeptide which comprises an amino acid sequence substantially identical to the sequence of SEO ID NOs; 22-24 or a fragment or variant thereof.
- a nucleic acid molecule which comprises a nucleotide sequence substantially identical to the sequence of SEO ID NOs: 1-3 or a fragment or variant thereof.
- a nucleic acid molecule encoding a polypeptide which comprises an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24 or a fragment or variant thereof, or
- iv) a cell culture supernatant which comprises a polypeptide comprising an amino acid sequence substantially identical to the sequence of SEQ ID NOs: 22-24, or a fragment or variant thereof, thereby reducing shedding of the A/E pathogen in the animal.
- (Previously Presented) The method of claim 53, wherein the animal is a ruminant.
- (Original) The method of claim 56, wherein the ruminant is a bovine or ovine subject.
- 58. (Previously Presented) The method of claim 53, wherein the animal is a human

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59-70. (Canceled)

- (Previously Presented) The method of claim 53, wherein the A/E pathogen is enterohemorrhagic E. coli (EHEC), enteropathogenic E. coli (EPEC), or Citrobacter rodentium.
- 72. (Original) The method of claim 71 wherein the EHEC is EHEC 0157:H7 or EHEC 0157:NM
  - 73. (Original) The method of claim 71 wherein the EPEC is EPEC 0127:H6.

74-85. (Canceled)

- 86. (Previously Presented) The method of claim 53, wherein the composition is provided in combination with a physiologically acceptable carrier.
- 87. (Previously Presented) The method of claim 53, wherein the polypeptide comprises 20% of the cell protein present in the composition.
- 88. (Previously Presented) The method of claim 53, wherein the composition further comprises a EspA, EspB, EspD, EspP, Tir, Shiga toxin 1, Shiga toxin 2, or intimin polypeptide.
- (Previously Presented) The method of claim 53, wherein the composition further comprises an adjuvant.
- $90. \qquad \hbox{(Previously Presented)} \qquad \hbox{The method of claim 53, further comprising treating or preventing infection by the A/E pathogen.}$

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- (Previously Presented) The method of claim 54, wherein the animal is a ruminant.
- 92. (Previously Presented) The method of claim 55, wherein the animal is a ruminant.
- 93. (Previously Presented) The method of claim 54, wherein the animal is a human.
- 94. (Previously Presented) The method of claim 55, wherein the animal is a human.